CATERPILLAR®



Caterpillar Inc.

100 NE Adams Street Peoria, Illinois 61629 - 3315

July 5, 1990

Mr. Daniel Sullivan Ecology and Environment, Inc. 111 West Jackson Blvd. Chicago, IL 60604

Dear Mr. Sullivan:

Texaco Inc. Sales Terminal

Dear Mr. Sullivan:

Enclosed are the following documents you requested during the site evaluation of the former Texaco terminal on June 26, 1990.

- Test boring reports for monitoring wells MW-3 through MW-7 completed in 1987.
- A location drawing of MW-3 through MW-7.
- Groundwater monitoring well installation details for MW-3 through MW-7.
- Groundwater analyses from MW-3 through MW-7 for 1988, 1989 and 1990.

If you have any questions, please contact me.

Very truly yours,

Environmental Affairs Technical Services

RRKilgo

Telephone: (309) 675-5547 sam \rrk\0186ltr.tem.

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Enc.

Υ es s	ONMENTAL TEST BORING REPORT BORING NO. MW-3 PROJECT: Groundwater Assessment												
	CLIE	NT: TRACT		rpilla SI	er Ass er, Ir ME-55	essme	nt				PAGE NO	F-1376 D. 1 of 2 N: East Peoria, IL	
	ROUN	IDWAT E	3	DEPT	H TO:			CASING	SAMPLE	R CORE	ELEVATI	ON:	
	DATE	HRS AF		R BOT	TOM 8	OTTOM F HOLE	TYPE		S	T	DAIL SI	ART: 3/24/87 NISH: 3/24/87	
3	/24		UR			-	SIZE D		1 7/8	'		: B. Williamson	
							TW REMMAN		140 11 30"	'! ><	PREPARI	ED BY: P.W. Albenesi	
	EPTH IN EET	CASING BLOWS PER FOOT	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	7	FIELD CLASSIFICATION AND REMARKS						
						Note	Note: Auger cuttings from 0-5': dark brown, dry, mostly fine sand, some silt, red brick frags, glass (fill).						
	5												
					-	Note	Note: Cuttings from 8-10': light brown, moist, mostly silt, little fine sand, no plasticity.						
	10		9 10 9	NR	10.0	Poo: Brow grav	rly graded vn, dry, m vel. (25%	sand working state of the state	ith grant ne sar	avel (S	e tine, si	ibrounded to rounded	
	15					Note					n, moist, e fine sar	mostly fine gravel, nd.	
7	1		5		15.0	Well	graded s	and (SW)					
	, }		5	_\$1	16.0	Ligh	t brown,	noist, m		coarse	sand, lit	tle fine sand,	
1			3	51A	17.0		le fine g		rbon o	dor	·		
	20		5 4 4 3	S2	17.0	Dark grdy to black, wet, mostly fine gravel, some fine sand,							
	100	VFL	DENSITY	BLOWS	/FI O	WSISTER	NCY SA	MPLE ID.	$\overline{}$	COMPO	NENT %	GROUNDWATER ABBREV.	
VERY LOOSE 0-2 VERY SOFT 5 SPLING 100SE 3-4 SOFT T TUB				IT SPOON IE ISTURBED PI IB SAMPLE	STON	MOSTLY SOME LITTLE FEW	50-100 % 30-45 % 15-25 % 5-10 %	WO - WHILE DRILLING NE - NOT ENCOUNTERED UR - NOT READ					

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TEST BORING REPORT

BORING NO. MW-3

IN FEET	CASING BLOWS PER POCIT	BLOWS PER 8 NO-ES	Sample Number	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					Poorly graded gravel with sand (GP)
Ī					
ļ	· · · · · · · · · · · · · · · · · · ·	7	63	21.5 22.5	No hydrocarbon odor.
1		3	S3 S3A	225/230	
ļ		2	S3B	230/23:5	Organic Silt (ML)
					Dark grey to black, moist, mostly silt, few fine sand,
25				24 0	decaying organic matter, H ₂ S odor. <u>Poorly graded sand (SP)</u>
25		2	S 4	24.0	Dark grey, wet, mostly fine sand, few fine rounded gravel,
į		4	,	25.5	
		4	S4A		Organic Stilt (ML) See S3B
		10		26.5	Clayey silt (ML) Dark grey, moist, mostly silt, some clay, low to medium
		3	\$5		plasticity.
		3		28.5	
	<u> </u>				
30		}		}	
30					
					Bottom of Exploration 28'
		<u></u>	-		
		 			
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LOWS	FT.	DENSIT			ONSISTENCY SAMPLE ID. COMPONENT % GROUNDWATER ABBRE
9-4 \$-10 11-30	LC	LOOSE	0-2 3-4 5-8	!	RY SOFT S SPLIT SPOON MOSTLY 50-100% WD-WHILE DRILLING SOFT T TUBE SOME 30-45% NE-NOT ENCOUNTERED LITTLE 15-25% UR-NOT READ

Y	ROI ISU	ILTA	NTAL					NG R	EPC	RT	BORING	NO.	MW-4 / BI04
	CLIE	JECT: NT: TRACT IPMEN	Cat	erpil Prof	lar, I essior	al Serv		ndustries,	Inc.		JOB NO PAGE NO LOCATIO	o. <u> </u>	376 1 plan
	GROUN DATE	FS AF		A DF C	TOM BK ASSEC OF 0 ft 1	7.0ft sizi	10	HSA 3-¼ in	SAMPLER S 1-3/811	BARDE	DATE ST DATE FII	พเรษ <u>เ3 De</u> เ: Kieth	cember 1986 cember 1986 Holm
ł		<u> </u>					MER WT		140 lb 30 in	$\geq <$	PREPARE	ED EX _J.	S. Chamness
	DEFTH IN FEET	CASING BLOWS PER FOOT	SAMPLER BLOWS PER B INCHES	Samply Humber	SAMPLE DEPTH RANGE		FIELD CLASSIFICATION A					RKS	
The same of the sa													
	. 5		1 2	\$1	5.0 6.5 6.5		Black	at (OL) , moist, r	nostly f	ibrous	s peat, tr	race fin	e
			2 1 1 2	S2 S3	8.0 <u>8.0</u> <u>9.5</u>	9.0 ft.		FILL					
,]	10		6 4 2 2	S4	9.5 11.0 11.0		Dark littl	11 graded brown, wet e silt, fe	t, mostl w fine	y fine grave	e to coars		
			1 1 1	\$5 \$6	12.5	13.0 ft	·		חסט ווסט			· · · · · · · · · · · · · · · · · · ·	
	15		1 1 1	S7	14.0 14.0 15.5 15.5		Gray,	ilt (ML) wet, most ional fine No notic	e sand 1	ayers,	, trace or	raanics	·
			1	88	17.0	17.0 ft.							
					·	BOTTOM OF EXCAVATION 17.0 ft. NOTE: 1) S3: Oil & grease: 2600 mg/kg; total hydrocarbon: 1800 mg/kg							
	20			7			2)	Installed	i perman	ent mo	onitoring rbon odor	well, M below 1	arch 1987 3.0 ft.
-	BLOWS	/FT.	DENSITY	 		NSISTENCY	 	SAMPLE ID.		COMPO	HENT %	1	WATER ABBREY.
	0-4 5-10 11-30 31-50 51+	O LOOSE S O MEDIUM DENSE 9 O DENSE 18		0-2 3-4 5-8 9-15 16-30	AE T WE	SOFT TURE U UNDISTURBED PISTON SOM STIFF G GRAR SAMPLE FERY STIFF X OTHER FEW			OSTLY OME ITTLE EW RACE	50-100 % 50-45 % 15-25 % 5-10 %	NE - NO UR - NO	ILE DRILLING T ENCOUNTERED T READ 3 NO. MW-4	

アスニンに RONMENTAL TEST BORING REPORT BORING NO. MW-5 Groundwater Assessment PROJECT: JOB NO. __F-1376 Caterpillar, Inc. CLIENT:_ CONTRACTOR:_ PSI PAGE NO. 1 of 1 EQUIPMENT USED: CME-55 LOCATION: East Peoria, IL SAMPLER BARREL ELEVATION: Approx 452 GROUNDWATER DEPTH TO: CASING DATE START: 3/20/87 BOTTOM BOTTOM WATER DATE S DATE FINISH: 3/20/87 14'0" 17'0" 7/8" 3/20 WD 117'0" DRILLER: M. Henderson SIZE D 3/20 3/21 14'9" 15'5" 15'5" 140 lbs PREPARED BY: P.W. Albenesisus HAMMER WT 10'0" 15'5" 15'5" 30" 24 HAMMER FALL __ SAMPLER BLOWS SAMPLE PER HUMBER B INCHES CASING BLOWS PER POOT SAMPLE DEPTH DEPTH FIELD CLASSIFICATION AND REMARKS FEET Auger cuttings from 0-3.5' are tan, drv, fine sand with Note: some shells. Probably fill. 1 5 Poorly Graded Sand with silt or clay (SP-SM) 3.5 Tan, dry, mostly fine sand, little to some shell frags, few S1 5.0 silt or clay; cinders in tip of spoon. 4 Auger cuttings from 7-8.5, dark grey, moist to wet, mostly fine sand. Strong hydrocarbon odor. Wet cuttings at 8.5'. 8.5 Silty Clay (CL) **S2** Dark grey, moist, mostly clay, few silt, highly plastic, 2 10 10.0 strong hydrocarbon odor. 2 Silty Sand (SP-SM) 10.0 Grey to black, wet, mostly silt, some fine sand grading to **S3** 11.5 mostly fine sand, some silt. Trace roots and fibers throughout. Strong hydrocarbon odor throughout. 11.5 **S4** 13.0 Poorly graded sand (SP) and layers of silty clay (CL) 13.0 Gray, wet, mostly fine sand, trace silt with occasional lavers 0 **S5** 14.5 of wet, mostly silty clay. 15 17.0 Silt with sand (ML) Dron* Gray to black, moist, mostly silt, some to little fine sand, 3 56 18.5 low plasticity: Bottom of Exploration 18.5 ft. * Driller inadvertently dropped hammer through 6" of sample. .20 GROUNDWATER ABBREV. DENSITY BLOWS/FT CONSISTENCY SAMPLE ID. COMPONENT % BLOWS/FT. WD - WHILE DRILLING NOORS TILIES VERY SOFT S VERY LOOSE MOSTLY 50-100% HE - NOT ENCOUNTERED SOFT TUSE 5-10 30 -45 % LOOSE SOME 5-8 UNDISTURBED PISTON MEDUM STIFE u UR - NOT READ 11-30 MEDIUM DENSE LITTLE 15-25 % 9-15 GRAB SAMPLE STIFF G 31-50 DENSE 5-10% 16-30 VERY STIFF FFW OTHER x BORING NO. MW-5 51. YERY DEKSE 45 % NO RECOVERY TRACE HARD HR 31+

IROI	RONMENTAL TEST BORING REPORT BORING NO. MW-6													
ISL	ILTA	(NTS Ground	water	ASSAS	Sment		אוורוי	u ni		Jhi	BORING	NO. MW-6		
CLIE	NT:_	Caterp	<u>lllar</u>	Inc.	3						_ JOB NO.	F-1376		
CON	TRACT	OR:		E-45							LOCATION	1 of l East Peoria, IL		
GROUP	OWATER			н то:				CASING S	SAMPLE	R CORE		N. Approx. 452		
DATE	WD	WATE	" OF C	ASING OF	HOLE	TYPE			S 1 7/8		DATE FIN	ish: <u>3/22/87</u>		
3/21	WIJ		1			HAMI	MER WT		140]	_		M. Henderson b sy: P.W. Albenesius		
DEPTH	CASING	SAMPLER		SAMPLE		HAM!	MER FALL	<u> </u>	30"					
FEET	CASING BLOWS PER POOT	BLOWS PER 6 INCHES	SAMPLE HUMBER	DEPTH		FIELD CLASSIFICATION AND REMARKS								
					Note						dry, most le shells.	ly fine sand, some		
1												and lighter brown.		
	<u> </u>				-		-							
i														
- 5					Poor	ly c	graded	sand wit	h gra	vel (SP)			
		3	S1	5.0								um sand, few coarse		
		3		6.5	↓`		• . •			-				
					Note:			s wet at lt, few			to black, i	mostly fine sand,		
										•		:		
		4	S2	8.5	Silt	v c	lav (CL	<u>)</u> ostly cl	av. s	ome sil	t. little	rubble and		
_ 10		2		10.0	fine	sar	nd.	, .	-3, -			1		
		0	S 3	10.0	Gray	WE		tly silt				loose, medium		
		0		11.5	plasi Dist	tici urbe	ity. 1 ed samp	" seam o le. verv	f fin wet	e sand and fra	at 11.0'. gmented: g	ray wet, mostly silt,		
		1	S4	13.0	litt	le 1	fine sa	nd, fain	tly 1	aminate	d, very lo	ose.		
		0			511t	(ML	_)	. •						
		1	S 5	14.5	Gray HoS o	we odor	et, mos r; fine	tly silt sand in	, tin	e clay, of spoo	raintiv la n.	aminated, pasty,		
15		2		14.5	Poor	ly g	graded	sand (SP)	•				
		3		16.0	j		•	tly fine						
		0		17.0	Note:	: Ai	iger dri 5" lave	opped 6" r silt w	from ith f	its ow ine san	n weight fi d at 16.0 °	rom 14.5-15.0' ft. to 16.5 ft.		
		0.	S7A	17.0 18.0										
		1		18.0	O (Driller hammered last spoon for his own purposes)									
		1	 -	19.0					mostl	y silt,	little cla	ay, little wood		
_ 20					chips	a a r	nd root	fibers	(trac	e of pe	at.) T 19.0 ft.			
BLOWS	/FT.	DENSITY	BLOWS	VFT C	NSISTE	NCY	·	MPLE ID.			NENT %	GROUNDWATER ABBREY.		
0-4 5- x 11-3) Li	Y LOOSE OOSE IUM DENSE	0-2 3-4 5-6	M				STON	MOSTLY SOME LITTLE	50-100 % 30-45 % 15-25 %	WD - WHILE DRILLING NE - NOT ENCOUNTERED UR - NOT READ			
31-50 51+	9 94	ENSE Y DENSE	16-30		STIFF ERY STIFF		X OTH			FEW TRACE	5-10 % 45 %	BORING NO. MW-6		

	IRON	CONMENTAL TEST BORING REPORT BORING NO. MW-7 PROJECT: Groundwater Assessment												
	CLIE	JECT:_ NT: TRACT IPMEN	Cate OR: PS	rpilla I	ar, In	essment c.					JOB NO PAGE NO LOCATION	F-1376 1 of 2 East Peoria, IL		
+		IDWATER			н то:			CASING	SAMPLE	R CORE	ELEVATIO	N: RT:3/20/87		
	DATE	HES AFT	ER WATE	R SOT	TOM BO	HOLE TYPE			S		DATE FIN	ISH: 3/		
	3/20	MD	19.0		0' 20				1 7/8" 140 1b:			1. Henderson BY: P.W. Albenesius		
I	3/20 3/24	9.6	20.4 7.0"		.0' 23 .0' 20		MER WT MER FALL		30"	, 	PREPAREI	BY: N. ATDERESTUS		
	DEPTH IN FEET FOOT SAMPLE SAMPLE DEPTH RANGE FIELD CLASSIFICATION										AND REMAR	KS		
1											· .			
3	•		6		3.5	Poorly	grade	<u>d gravel</u>	with s	sand (GF))			
1	- 5		2	S1	5.0	Brown	to blacand, I	ck. mois	t. most	tly fine	gravel,	some coarse to Gravel subrounded		
]														
7	10		1 1	S2	8.5	Gray, (gray	moist 1	y silt () to wet, i n). Mat	nostly	silt, s loosėns	some clay, with dept	laminations 1		
				·										
	_ 15		0 1 1	S3	13.5	Grav.	silt wet, more	ostly si	lt, sor nd with	ne clay I few si	, medium p lt or clav	lasticity, sticky. o at 14.0'.		
Paralli Carana	• • • • • • • • • • • • • • • • • • •							- .						
	•				18.5		01	Cl						
1	_ 20			54	20.0] 3" lay	wet, more	ostly cl	ay, sor	ine san	d, little	silt or clay at 19.		
	BLOWS	S/FT.	DENSITY	BLOWS		MSISTENCY	 	AMPLE ID.		COMPO	NENT %			
	0-4 VERY LOOSE 5-10 LOOSE 11-30 MEDIUM DENSE 31-50 DENSE			0-2 3-4 5-8 9-15	M	ERY SOFT S SPLIT SPOON MOSTLY SOFT T TUBE IEDIUM STIFF U UNDISTURBED PISTON SOME STIFF G GRAB SAMPLE LITTLE FEW				50-100 % 30-45 % 15-25 % 5-10 %	WD - WHILE DRILLING NE - NOT ENCOUNTERED UR - NOT READ			
1	51+		Y DENSE	31-	- 1	ERY STIFF HARD		THER DRECOVERY	I	TRACE	<5 %	BORING NO. MW-7		

SI	RI	1		IE
ENV	IRO	NM	IEN.	TAL

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DENSE VERY DENSE

9-15 16-30 21 -

TEST BORING REPORT

MW-7 BORING NO. 2

OEPTH IN FEET	CASING BLOWS PER FOOT	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE			FIE	LD CLA	SSIFICATIO	N AND REMA	ARKS	
		1	\$5	20.0	Silty	or c	layey gra	vel (6	M/GC)			
	ļ	1 2	S5A	21.0 21.0/ _{21.5}	Dark b	rown	, wet, mo	stly f	ine grave	el and coa	erse to f	ine sand
		0	ļ	21.5 23.0	some s (Poor	ilt	or clay,	few cl	ay. Grav	vel angula	ar to rou	nded.
		1	S6	23.0			• •					
		2			Rottom	<u>ul)</u> 12"	is dark	nr _{>} v	moist. mo	stly clay	, high	
					\plasti	city	'.	gray,	morse, m	sciy cias	, iiigii	
					\					 		
25		-					BOTTO	M FXPI	ORATION	AT 23.0 ft		
										2010		
												
	-	 										
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-45										<u></u>		
BLOWS	/FT.	DENSITY			NSISTENCY		SAMPLE ID.		COMPON	ENT %	GROUNDWA	
0-4 5-10 11-30	10	LOOSE OSE UM DENSE	0-2 3-4 5-6	S. MED	Y SOFT OFT DIUM STIFF	S T U	SPLIT SPOON TUBE UNDISTURBED		MOSTLY SOME LITTLE	50-100°/ 30-45 % 15-25 %	WO-WHILE ME-NOT E UR-NOT F	NCOUNTERED
31-50		INSE	9-15		TIFF Y STIFF	G	GRAB SAMPLE		FEW	5-10%		

VERY STIFF

OTHER

FEW TRACE

5-10 % <57

EORING NO. MIL 7

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TON	151	JL	ΓA	N	TS

) I		OLIANIS OJECT: Groundwa	tan Accessment			E 12	76	
l						JOB NOF-13	070	
	1	CATION: Cateroi		Peoria,	IL	INSTALLATION NO.	MW-3	
1		JENT: Caterpill				TYPE OF INSTALLA	MION <u>permanent</u>	
}	cc	NTRACTOR: Profe	essional Service	<u>Industr</u>	ies	<u>Monitoring</u>	Well	
1	DR	ILLER: B. William	nson CERTIFICA	ATION NO:_		BORING NO. MW-3		
•	CR	SS FIELD REPRESEN	TATIVE: P. W. AT	lbenisius		LOCATION See Plan		
	P.E	Gordon Peter	son, P.E.	INSTALLATION DAT	TE 3/24/87			
	SL DA	JRVEY	<u> </u>	TOP OF PROTECTIVE CA	SING (CAP OPEN)	3.0 ft.		
	GR	ROUND IRFACE ELEVATION:	Approx. 452 ft.		TOP OF WELL CASING O		2 5 5+	
	OT TO SCALE)	Fill: mostly silty sand	Concrete		TYPE OF SURFACE SEAL THICKNESS OF SURFACE TYPE OF PROTECTIVE CA INSIDE DIAMETER TOTAL LENGTH	E SEAL	neat cement 2.0 ft. steel 4.0 in. 5.0 ft.	
	S, BACKFILL AND SEALS (NOT TO	5.0————————————————————————————————————	Neat cement Bentonite 8.0		— BOTTOM OF PROTECTIVEL ————————————————————————————————————	DEPTH _	2.0 ft. Sch. 40 PVC 2.0 in. 10 in.	
	SUMMARIZE SOIL CONDITIONS,	23.5	Fine silica sand		TOP OF WELLPOINT EL TYPE OF WELLPOINT SCREEN GAUGE OR SIZE INSIDE DIAMETER TYPE OF BACKFILL AROX	• •	Machine slotted Triloc PVC 0.010 in. 2.0 in. Fine sand	
CUSS FORM 106 9-2-86		silt with interbedded sand.	- ALL DEPTHS ARE REF		BOTTOM OF WELL POINT EL BOTTOM OF BOREHOLE EL	DEPTH .	25.0 ft. 26.0 ft.	
CRSS		TO DEPTH IN FEET 12.5 ft. LENGTH OF RISER PIPE	TO GROUND SURFACE + 15.0 LENGTH OF	ft	= 27.5 ft.	BENTON	NITE SEALS [///////]	

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PROJECT: Groundwa	for Accocoment		F 1276
1.			JOB NO F-1376
LOCATION: Caterpi	llar, Inc., East	Peioria, IL	INSTALLATION NO. MW-4
CLIENT: Caterpilla	er, Inc.		TYPE OF INSTALLATION Permanent
CONTRACTOR: Profe	essional Service	Industries	Monitoring Well
DRILLER: M. Henders	OR CERTIFICATI	ION NO:	BORING NO B-104
CRSS FIELD REPRESEN	MATIVE: P. W. Albe	LOCATION See Plan	
PE: Gordon Peter	son, P.E.	INSTALLATION DATE 3/21/87	
SURVEY DATUM MSL		CASING (CAP OPEN) STICKUP 3.0 ft.	
GROUND SURFACE ELEVATION:			
(E)		TYPE OF SURFACE SI THICKNESS OF SURF	1 5 ++
SEALS (NOT TO SCALE) Wostly beat	Neat Cement	TYPE OF PROTECTIVE INSIDE DIAMETER TOTAL LENGTH	
Wostly peat with gravel	1.5	BOTTOM OF PROTEC	DEPTH 2.0 ft.
BACKFILL	3.5	TYPE OF WELL CASIN	2.0 in.
ONS, B	{	APPROXIMATE DIAME	TER OF BOREHOLE 10 in.
		TOP OF WELLPOINT	5.5 ft.
9.0————————————————————————————————————	Fine silica sand	TYPE OF WELLPOINT SCREEN GAUGE OR SINSIDE DIAMETER TYPE OF BACKFILL AI	2.0 in.
silt		BOTTOM OF WELL PO	16 6 ff
• FIGURES ABOVE REFER TO DEPTH IN FEET	- ALL DEPTHS ARE REFER TO GROUND SURFACE	BOTTOM OF BOREHO	DLE DEPTH 16.5 ft.
8.0 ft. LENGTH OF RISER PIPE	+ 10.0 ft		

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	/IRC				
	NISI	11	$T\Delta$	N.	TS

	ULIANIS					76	
	ROJECT: Groundwa			JOB NO. F-13	/6		
-	CATION: Caterpi				INSTALLATION NOMW-5		
CI	JENT: Caterpil	lar, Inc.			TYPE OF INSTALLA	MON <u>Permanent</u>	
· co	ONTRACTOR: Profe	essional Service	es .	Monitoring '	Well		
DF	RILLER: M. Henders	on CERTIFICA	ATION NO:		BORING NOM	4-5	
CF	RSS FIELD REPRESEN	TATIVE: P. W. A	<u>lbenisius</u>		LOCATION_See	Plan	
P.I	: Gordon Peters	son. P.E.			INSTALLATION DAT	E_3/20/87	
	URVEY		1	TOP OF PROTECTIVE CAS	SING (CAP OPEN)	3.0 ft.	
G	ROUND					-	
St	JRFACE ELEVATION:	Approx. 452 ft.		TOP OF WELL CASING OF	R RISER PIPE STICKUP .	2.5 ft.	
(e)	MAININ			TYPE OF SURFACE SEAL THICKNESS OF SURFACE		neat cement 1.5 ft.	
	σ l	Neat cement		TYPE OF PROTECTIVE CA INSIDE DIAMETER TOTAL LENGTH	SING .	steel 6.0 in. 5.0 ft.	
ONS, BACKFILL AND SEALS (NOT TO	bedded silt.	Bentonite		BOTTOM OF PROTECTIVE EL	DEPTH	2.0 ft. Sch. 40 PVC 2.0 in.	
		3.5		APPROXIMATE DIAMETER	OF BOREHOLE .		
CONDI	8.5			EL	DEPTH .	5.5 ft. Machine slotted	
SUMMARIZE SOIL CONDITI	Interbedded silty clay, sand, and silty sand	Fine silica sand		TYPE OF WELLPOINT SCREEN GAUGE OR SIZE INSIDE DIAMETER TYPE OF BACKFILL AROU	-	Triloc PVC 0.010 in. 2.0 in. Fine sand	
SUMN		}		BOTTOM OF WELL POINT	DEPTH .	15.5 ft.	
<u>.</u> ,)	}				
	FIGURES ABOVE REFER			BOTTOM OF BOREHOLE	DEPTH	16.5 ft.	
	8.0 ft. LENGTH OF RISER PIPE	+ 10.0 LENGTH OF	ft. =	18.0 ft.	BENTON	ITE SEALS [//////]	

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11/	/IF	201	NN	1E	N	TAL
$\overline{}$	N	51	11 -	ΓA	NZ	TS

O_1		<u> </u>						
1	PF	ROJECT: Groundwa	ter Assessment			JOB NOF-1	376	
1	LC	OCATION: <u>Caterpil</u>	lar. Inc East	Peoria,	IL	INSTALLATION NO	MW-6	
1	CL	JENT: <u>Caterpil</u>	lar. Inc.			TYPE OF INSTALLATION Permanent		
1	co	ONTRACTOR: Prof	essional Service	<u>Industr</u>	ies	Monitoring	Well	
	DF	RILLER: B. Willia	mson CERTIFICA	NO:_		BORING NO.	MW-6	
	CF	RSS FIELD REPRESEN	ITATIVE: P. W. /	Albenisiu	s	LOCATION See Plan		
	P.5	: Gordon Peters	on, P.E.			INSTALLATION DA	TE 3/22/87	
	SU	JRVEY ATUM MSL	Į.	>	_TOP OF PROTECTIVE CA	SING (CAP OPEN) STICKUP	3.0 ft.	
		ROUND	=		•			
i		JRFACE ELEVATION:	Approx. 452 ft.		TOP OF WELL CASING O	OR RISER PIPE STICKUP	2.5 ft.	
 		TANIAN IN		A CONTRACTOR	TYPE OF SURFACE SEAL THICKNESS OF SURFACE	_	neat cement	
	(NOT TO SCALE)	Poorly	Neat cement	A constant of the constant of	TYPE OF PROTECTIVE CO INSIDE DIAMETER TOTAL LENGTH	ASING	steel 6.0 in. 5.0 ft.	
	BACKFILL AND SEALS (1	graded fine - sand	Bentonite		EL TYPE OF WELL CASING O	DEPTH	2.0 ft. Sch. 40 PVC 2.0 in.	
:	NS,		}		- APPROXIMATE DIAMETEI	R OF BOREHOLE	10 in.	
	SOIL CONDITIC	8.5	Fine)		_TOP OF WELLPOINT	DEPTH	4.5 ft. Machine slotted	
		Interbedded silty clay and fine sand.	silica sand	+	TYPE OF WELLPOINT SCREEN GAUGE OR SIZE INSIDE DIAMETER TYPE OF BACKFILL AROL		Triloc PVC 0.010 in. 2.0 in. Fine sand	
9-2-86	SUMMARIZE		}		BOTTOM OF WELL POINT	r Depth	19.5 ft.	
CUSS FORM 106		FIGURES ABOVE REFER TO DEPTH IN FEET	· ALL DEPTHS ARE REF TO GROUND SURFACE		- BOTTOM OF BOREHOLE EL	: DEPTH	21.0 ft.	
		7.0 ft. LENGTH OF RISER PIPE	+ 15.0 1 LENGTH OF		= 22.0 ft.	BENTO	NITE SEALS [///////	

IHHINE VIRONMENTAL

NSULIANIS			5 1076
PROJECT: Groundw	ater Assessment		JOB NOF-1376
LOCATION: Caterpi	llar, Inc., Eas	st Peoria, IL	INSTALLATION NO. MW-7
CLIENT:Caterpill	ar, Inc.		TYPE OF INSTALLATION Permanent
CONTRACTOR: Prof	<u>essional Service</u>	industries	Monitoring Well
DRILLER: B. William	mson CERTIFICA	ATION NO:	BORING NO. MW-7
CRSS FIELD REPRESEN	NTATIVE: P. W. AT	benisius	LOCATION See Plan
P.E. Gordon Peter	son, P.E.		INSTALLATION DATE 3/23/87
SURVEY MSL MSL		TOP OF PROTECTIVE	CASING (CAP OPEN)STICKUP3.0 ft.
GROUND SURFACE ELEVATION:	Approx. 452 ft.		G OR RISER PIPE STICKUP 2.5 ft. Neat Cement
(NOT TO SCALE)	Neat Cement	TYPE OF PROTECTIVE INSIDE DIAMETER TOTAL LENGTH	s+ool
ONS, BACKFILL AND SEALS (NOT TO SCALE) A control of the search of the s		BOTTOM OF PROTECT EL	DEPTH 2.0 Tt.
		TOP OF WELLPOINT	
Silty clay and clayey silt	Fine silica sand	TYPE OF WELLPOINT SCREEN GAUGE OR INSIDE DIAMETER TYPE OF BACKFILL A	2.0 in.
9-2-6	}	BOTTOM OF WELL PO	20 0 £+
• FIGURES ABOVE REFER TO DEPTH IN FEET	- ALL DEPTHS ARE REF		DLE
7.5 ft. LENGTH OF RISER PIPE	+ 15.0 ft LENGTH OF		

DATE	CHROM TOT	TOT	OIL	PH	COND	BENZ	ETHY BENZ	TOL	XYL
	mg/l	mg/l	mg/l	•	umho	ug/l	ug/l	ug/l	ug/l
1988 1-20 2-16 3-15	<.01 .02	<.01 <.01	3 2 2	7.4 7.14 7.23	1200 1180 1200	₹5	(5	⟨5	· (15
4-19 5-17 5-15	<.01 <.01 <.01	<.01 <.005 <.01	<1 <1 <1	7.19 7.28 6.94	1380 1190 1280	(5		(5	(15
7-15 8-19 9-8 12-14	<.01 <.01 <.01 <.01	<.01 <.01 <.01 <.01	<1 <1 <1 4	6.77 7.19 7.07	1370 1470 1290 1350	(5		⟨5	(15
1989 1-17 2-16	<.01 <.01	0.01	<1 2	6.97 6.82	1410 1250	₹5	₹5	₹5	(15
3-17 4-18 5-16 5-16	<.01 <.01 <.01 <.01	<pre><.005 <.005 .007 <.005</pre>	6223	7.12 7.05 7.24 7.03	1240 1160 1020 1040	(5	⟨5	. (5	<15
3-15 3-28	.01	<.01 <.005	(1 1	6.94 7.01	1450 1420	< 5		(5	<15
10-23 11-13 12-13 1990	<.01 <.01 <.01	(.005 (.005 (.005	2 <1 1	6.97	1480 1400	(5	₹5	₹5	<15
1-16 1-15 3-16	<.01 <.01	<.005 .005</.005</td <td>7 3 (1 2</td> <td>7.01 7.01 6.8</td> <td>1390 1250 910</td> <td><i>(</i> 5,</td> <td>(5</td> <td>15</td> <td>115</td>	7 3 (1 2	7.01 7.01 6.8	1390 1250 910	<i>(</i> 5,	(5	15	115
4-16 5-18	<.01 <.01	<.005 .005</td <td><1 2</td> <td>7.02 7.08</td> <td>970 1030</td> <td>45</td> <td><5</td> <td>(5</td> <td><15</td>	<1 2	7.02 7.08	970 1030	45	< 5	(5	<15

MW4

DATE	CHROM TOT	LEAD TOT	OIL	PH	COND	BENZ	ETHY BENZ	TOL	XAL
	mg/l	mg/l	mg/l		umho	ug/l	ug/l	ug/l	ug/l
1988									
1-20	<.01	<.01	3	7	1450	₹5	⟨5	(5	<15
2-16	<.01	<.01	<1	6.84	1530				
3-15	. 07		1	6.93	1800			,	/1 =
4-19	<.01	< .01	(1	6.94 6.97	1500	< 5		< 5	<15
5-17 6-15	<.01 <.01	<.005 <.01	<12 <1	6.73	1400 1410				
7-15	<.01	<.01	<1 <1	6.43	1410	< 5		(5	<15
8-19	<.01	<.01	<î	0.15	1510	``J		,	(13
9-8	⟨.01	<.01	<1	6.98	1360				
12-14	<.01	<.01	4	6.8	1450				
1989	1								
1-17	<.01	0.01	<1	6.72	1570	< 5	₹5	(5	<15
2-16	<.01	4.01	< 2	6.56	1380				
3-17	<.01	<.005	5	6.98	1380			,	
4-18	<.01	< .005	2	6.88 7.04	1300	< 5	< 5	<5	<15
5-16. 6-16	<.01	.008	2 2	6.88	1110 1120				
3-15	₹.01	<.01	í	9.77	1610	(5		(5	<15
9-28	₹.01	(.005	2	6.80	1580	_			. 113
10-23	⟨.01	<.005	2	6.75	1570	< 5	₹5	<5	<15
11-13	<.01	<.005	1	6.83	1540	•			
12-13	<.01	<.005	<1						
1990									
1 -16	<.01	<.005	2	6.90	1350	₹5	< 5	₹5	<i>(</i> 15
2-15	10.>	<.005	< 1	6.85	1400				
3-16	(.01	.02	2 <1	6.61 6.70	1170 940	(5	₹5	75	<15
4-16 5-18	<.01 <.01	<.005<	3	6.85	940	(5	' D	, 5	(15
7-10	/ • OT		5	9.00	240				

DATE	CHROM TOT	LEAD TOT	OIL	PH	COND	BENZ	ETHY BENZ	TOL	XYL
	mg/l	mg/l	mg/l		umho	nā/l	ug/1	ug/l	ug/l
1388									
1-20	<.01	<.01	5	7.01	870	₹5	⟨5	(5	<15
2-16 3-15	<.01	<.01	(1 (1	6.87 6.85	750 980				
4-19	<.01	<.01	<1	7.11	680	⟨5		₹5	(15
5-17	(.01	<.005	3	7.08	800				
6-15 7-15	<.01 <.01	(.01 (.01	3 1	6.74 6.54	900 1070	(5		(5	<15
3-19	(.01	⟨.01	⟨î	0.31	1260			· •	(10
9-8	<.01	.01	\leftarrow (1	6.99	1180				
12-14 1989	<.01	<.01	4	6.88	1240				
1-17	<.01	0.01	1	6.77	1280	₹5	(5	(5	(15
3-16	0.01	<.01	2	6.72	1080				
3-17	<.01	<.005 <.005	2	7.2 6.88	1220 1030	45	(5	(5	<15
4-18 5-16	<.01	<.005	(4 (2) (2)	6.99	760	1.5	٠.)	\ J'	, I =
5-16	<.01	<.005	<1	6.69	730	_		_	
3-15	<.01	< .01	2 3	6.77 6.81	1190 830	45		< 5	<15
9~28 10-23	<.01 <.01	<.005	3	6.73	860	45	(5	€5	115
11-13	<.01	<.005	<1	6.76	960	-	-	•	
12-13	<.01	1.005	1						
1990 1-16	<.01	<.005	3	6.95	1120	15	< 5	1 5	₹15
3-15	<.01	<.005	1	6.87	1180				
3-16	<.01	.006		5.69	790	(5		<5	⟨15
4 -16 5-18	<.01 <.01	<.005<	<1 4	6.78 7.11	520 520	, 5	⟨5	·. •	7.10
	· • V.		•	/ • -					

DATE	CHROM TOT	LEAD TOT	OIL	PH	COND	BENZ	ETHY BENZ	TOL	XYL
	mg/l	mg/1	mg/l		umho	ug/l	ug/l	ug/l	ug/1
1988 1-20 2-16 3-15	<.01 <.01	<.01 <.01	3 <1 <1	7.70 7.80 7.74	1140 1120 1200	〈 5	⟨5	⟨5	(15
4-19 5-17 6-15	<.01 <.01 <.01	<.01 <.005 <.01	1 (2 (1	7.52 7.62 7.37	1140 1100 1020	<5		45	<15
7-15 8-19 9-8	<.01 <.01 <.01	<.01 <.01 <.01	1 <1 <1	7.19 7.41	1060 1170 1090	<5		₹5	(15
12-14 1989 1-17 2-16	<.01 <.01 <.01	.01 0.01 (.01	3	7.44 7.43 7.26	1100 1140 1120	< 5	₹5	45	<1 5
2-16 2-17 4-18 5-16	<.01 <.01 <.01	<pre><.005 <.005 <.005</pre>	2 3 2 2	7.72 7.49 7.63	1170 1100 1000	ζ5	1 5	₹5	<15
6-16 3-15 3-28	<.01 <.01 <.01	<.005 <.01 <.005	2 2 2	7.36 7.28 7.46	990 1150 1220	. 45		(5	(15
10-23 11-13 12-13	<.01 <.01 <.01	<.005 .005</.005</.005</td <td>2 (1 1</td> <td>7.48</td> <td>1160</td> <td>⟨5</td> <td>₹5</td> <td>45</td> <td><15</td>	2 (1 1	7.48	1160	⟨5	₹5	45	<15
1990 1-16 2-15 3-16	<.01 <.01 <.01	<.005<.005<.005	1 (1 1	7.48 7.28 7.13	1060 1030 1060	(5	₹ <u>5</u>	₹5	(15
4-16. 5-18	<.01 <.01	<.005 .005</td <td>2</td> <td>7.12 7.37</td> <td>380 890</td> <td>< 5 ·</td> <td>₹5</td> <td><5</td> <td>₹15</td>	2	7.12 7.37	380 890	< 5 ·	₹5	<5	₹15

DATE	CHROM TOT	LEAD TOT	OIL	PH	COND	BENZ	ETHY BENZ	TOL	$XA\Gamma$
	mg/l	mg/I	mg/l		umho	ug/1	ug/1	ug/l	ug/l
1988									
1-20 2-16	<.01 <.01	<.01 <.01	2 1	6.98 7.06	1990 2080	(5	⟨5	<5	<15
3-15			1	7.06	1900				
4-19 5-17	<.01 <.01	<.01 <.005	1 3	7.1 7.18	1930 1860	<5		<5	<15
6-15	<.01	₹.01	⟨1	7.03	1830				
7-15	⟨.01	⟨.01	141	6.87	1800	< 5		< 5	<15
3-19	<.01	<.01	<1	•	1870				
9-8	<.01	<.01	⟨1	7.01	1830				
12-14	.01	<.01	3	6.92	1770				
1339			4.3	ć 00	7040		, -	/ F*	/3 E
1-17	⟨.01	0.01	<1	6.93	1940	(5	< 5	₹5	<15
2-16 3-17	<.01 <.01	<.01 <.005	2	6.83 7.16	1600 1610				
3-17 4-18	<.01	(.005	2	6.95	1350	₹5	<5	(5	(15
5-16	(.01	₹.005	ĩ	7.13	1210		· -	. 💆	
6-16	< 01	₹.005	1 2	6.97	1190				
8-15	<.01	<.01	1	6.86	1870	₹5		< 5	<15
9-28	<.01	<.005	<1	6.99	1840				
10-23	<.01	<.005	<1	6.94	1750	<5	₹5	< 5	<15
11-13	4.01	₹.005	<1	6.93	1770				
12-13	<.01	<.005	1						
1990	. 01	, 00E	(1	6.88	1620	45	75	7 5	₹15
1-16 3-15	<.01 <.01	<.005 <.005	(1	6.86	1430	4, 5		. 5	(15
3-16	⟨.01	⟨.005	(1	6.83	1480				
4-16	(.01	<.005	(1	6.78	850	(5	4 5	(5	(15
5-18	<.01	(.005	(1	6.97	900	. 2	` •		

INSTRUCTIONS TO P"".LERS

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FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well a. Dug Bored Hole Diamin. Depthft. Curb material Buried Slab: Yes No b. Driven Drive Pipe Diamin. Depthft. c. Drilled Finished in Drift In Rock Tubular Gravel Packed d. Grout:(KIND) FROM (FL.) TO (FL.) LRILL	10. Property ow Mell No. Address Drille: M. M. M. License No. D. 547 11. Permit No. Date 12. Water from D. T. 13. County T. 13. County T. 14. Sec. 3 7. 14. 14. Screen: Diam. In. Twp. 2.60 Length: 3 ft. Slot Rge. Elev. 15. Casing and Liner Pipe
2. Distance to Nearest: Building Ft. Seepage Tile Field Cess Pool Sewer (non Cast iron) Privy Sewer (Cast iron) Septic Tank Barnyard Leaching Pit Manure Pile 3. Well furnishes water for human consumption? Yes No	Diem. (in.) Kind and Weight From (Ft.) To (Ft.) Show Location in Section Plat 150 NL 150 WL NE In. It. It.
4. Date well completed 5. Permanent Pump Installed? Yes Date Manufacturer Capacity gpm. Depth of Setting Type 7. Pitless Adapter Installed? Yes No Manufacturer Model Number How attached to casing? 8. Well Disinfected? Yes No 9. Pump and Equipment Disinfected? Yes No Pressure Tank Size	18. FORMATIONS PASSED THROUGH THICKNESS DEPTH OF YELLOW SANDY CLAY 3' 3/ GRAY CLAY TR. JAND 14 55 YELLOWCLAY, SAG, WATER RANGS 53 DARK GRAY TOSLAKK SHAE 16 DARK GRAY SHALE 17
Location	(CONTINUE ON SEPARATE SHEET IF NECESSARY) SIGNED 97. 97. DATE 8737/77

GEOLOGICAL AND WATER SURVEYS WELL RECORD

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Blue Copy — Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well
	a. Dug Bored Hole Diamin. Depthft.
	Curb material, Burled Slab: YesNo
	b. Driven Drive Pipe Dlamin. Depthit.
	c. Drilled Finished in Drift In Rock
	Tubular Gravel Packed
	d. Grout: (KIND) FROM (FL) TO (FL)
	DRILL CUTTINGS Q 20
•	
	<u></u>
2.	Distance to Negrest:
,	Building Ft. Seepage Tile Field
	Cess Pool Sewer (non Cast iron)
	Privy Sewer (Cast iron)
•	Septic Tank Barnyard
	Leaching Pit Manure Pile
	Is water from this well to be used for human consumption?
	Yes No No Date well completed 11-24-67
4.	Date well completed
5.	Permanent Pump Installed? YesNo
	ManufacturerType
	Capacitygpm. Depth of settingft.
	Well Top Sealed? YesNo
7.	Pitless Adaptor Installed? YesNo
	Well Disinfected? Yes No
9	Water Sample Submitted? YesNo
REI	MARKS:

GEOLO	GICAL WATER SURVE	EYS WATE	R WELL RI	ECORD
, , , , , , , , , , , , , , , , , , ,	Mines and Minerals permit	WF-20	// Vami	191.4
		110.	Well No.	
11. Proper				
Noores	WESTER OF 12	Licens	e No. "''') =7	19
Jimer	COM SANDL CAPAUS	Licons	WTA 2 BY	FLU
14. nater	rom SAN DI- GRAVEC	2 13. Coun	7.5.4	
at dep	th <u>120</u> to <u>/</u> 2/ft.	. Sec	-2-2-10	
14. Screen	: Dlam. 4- in.		<u> 26/4</u> /	
Length	11 3 It. Slot 20		<u>-4112</u>	
15 Carda	u and I ince Dine	Elev	•	1-1-1-
	g and Liner Pipe			
Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHÓW CATION IN
144	BLK ST FAM	10		TION. PLA
			r'	inct.
	7	 	110	5, 156 3
16 6: 1			- CYN	15/2 51
	lole below casing:		. 0)	
	level 29 ft. below casi			f
	ground level. Pumping lev	/e1 It.	when bambing	j at
gpm 10	r hours.			
18.	FORMATIONS PASSED THROU	GH	THICKNESS	DEPTH CH
1/44	and the state of		11	
YELL	ow clay		/6	16
FINE	SAND LCLAY		34	50
•		1	LL	95
-	CLAY TR S.X.	<u></u>		
CREL	EN CLAY		1./0	125
CAN	CLAY TR SHA		15	120
	•			
SHMI	+ GRAVEL			127
		•		
(CONTINUI	E ON SEPARATE SHEET IF	NECESSARY)		
				L
	1 8-			
	w.m. Chart		E 12-2	. / -

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III. Dept. of Pharic Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUES: J AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well			
		ored He	ole Diam. <u> </u>	. Depth 70 ft.
	Curb material	В	uried Slab: Yes_	No
		-		Depthft.
				In Rock
		Gravel Po	acked	
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
		<u> </u>		
	1			
•				
2.	Distance to Near Building		Seepage Tile Fie	na Na
	Cess Pool			iron)
	Privy)
	Septic Tank		Barnyard	
	Leaching Pit		_	
3.	Is water from this	s well to be us		
•	Yes 1			
4.	Date well comple	ted 190	.0	
	Permanent Pump			
	Manufacturer		Туре	
	Capacity	gpm. Dep	th of setting	ft.
6.	Well Top Sealed?			
	Pitless Adaptor			
	Well Disinfected			
9	Water Sample Sub	mitted? Ye	- N	'o
•	rator sampre bus			
RE	MARKS:	1.	1	
	1300	ling a	llex	
		0	J	

		Mines and Mitty owner	inerals permit :	No	Well No	Year		
							2000	4
	Driller	215m	E fest	Licen	se No			
12.		from Fo		13. Con	nty	end	wel	<u>l</u>
	at dep	th <u>50</u> to <u>'</u>	7 <u>0</u> ft.	Sec.	22.26			口
14.		: Diam). <u>Z G A</u>			
	Lengti	: <u></u>	Slot 2 0		. <u>4w</u>		1	1
15.	Casing	g and Liner F	Pipe	FIE	v			4
Dia	m. (in.)	Kind a	ind Weight	From (Ft.)	To (Ft.)	1.0	SHOW CATIO	
	Н	steel	sipe	0	67		TION	
-	-/	1	1-9-		<u> </u>			
\vdash							*	
Щ			· · · · · · · · · · · · · · · · · · ·	<u> </u>	L			
17.	above	level <u>O</u> ground level rhour	sing:ft. below casi . Pumping lev	ng top whice lft.	ch is when pu	mpin	g at	
18.		ORMATIONS I	PASSED THROUG	3H	тніск	N E 88	BOT	HOF
	San	1 0	50'					
								 .
					+			 -)
(CC	ONTINUE	ON SEPARA	TE SHEET IF	NECESSARY)				
SIGN	VED	Jpg		DA1	re <u>7</u> -	- 2	3	<u> 8</u>

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Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUES. J AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LUCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well							
	a. Dug Bored Hole Diam. 4 in. Depth 200 ft.							
	Curb material Buried Slab: YesNo							
	b. Drivenin. Depthft.							
	c. Drilled V Finished in Drift V In Rock							
	Tubular . Gravel Packed							
	d. Grout: (KIND) FROM (FL) TO (FL)							
2	Distance to Negrest:							
۷.	Building Ft. Seepage Tile Field							
	Cess Pool Sewer (non Cast iron)							
	Privy Sewer (Cast iron)							
	Septic Tank Barnyard							
	Leaching Pit Manure Pile							
3.	Is water from this well to be used for human consumption?							
	Yes No							
4.	Date well completed 1959							
5.	Permanent Pump Installed? YesNo							
	Manufacturer Type							
	Capacitygpm. Depth of settingft.							
6.	Well Top Sealed? YesNo							
7.	Pitless Adaptor Installed? Yes No Well Leal.							
8.	Well Disinfected? Yes No							
9.	Water Sample Submitted? YesNo							
REN	MARKS:							
	/9 *							

		Mines and Minerala permit I	No			
11.	Addres	ty owner	Peak	ell No.	tec	7
12.	Driller Water i	from 5+ C- Formation	Licens	se No. nty <u>77</u> .	7- £	well
14.	Screen	th toft. :: Diamfin. n:3	Twn	17.3c 26N 4W		
15.		g and Liner Pipe	Elev	,		
Die	m. (ln.)	Kind and Weight	From (Ft.)	To (Ft.)	LO	SHOW CATION IN
4	<u>#</u>	steel-	0	197		TION PLAT
17.	above gpm fo	level /P/ ft. below casi ground level. Pumping lever hours.	elft.	when pur	nping	
18.	F	FORMATIONS PASSED THROUG	ЭН	THICK	VESS	DEPTH OF BOTTOM
	To	stile.				
				 		
	· · · · · · · · · · · · · · · · · · ·			-		
(C	ONTINU	E ON SEPARATE SHEET IF I	NECESSARY)			
SIGI	NED	Harvey Pet	ty DAT	e_8/	6/	108
			P	/	1	

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Blue Copy — Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	a. Dug Bored Hole Dlam. in. Depth It. Curb material Buried Slab: Yes No b. Driven Drive Pipe Dlam. in. Depth ft.							
	c. Drilled X. Finished in Drift X In Rock Tubular X Gravel Packed Depth 23 ft.							
	d. Grout: (KIND) FROM (Ft.) TO (Ft.)							
2.	Distance to Nearest: Building 200 Ft. Seepage Tile Field							
3.	Is water from this well to be used for human consumption?							
A	Yes X No Date well completed July 7, 1967							
	Permanent Pump Installed? Yes X No Manufacturer Red Jacket TypeSub. S150N1-9CB							
c	Capacity 25 gpm. Depth of setting 18 ft. Well Top Sealed? Yes No No							
	Pitless Adaptor Installed? Yes X No No							
8.	Well Disinfected? Yes X No							
9.	Water Sample Submitted? YesNoX							
	MARKS:							

10. Dept.	Mines and Minerals permit 1	No. NF 24	<u>54</u> Y	ear .	1967	·	
11. Proper	ty owner Dixon Fishe	eries	Well No.	<u>i</u>			
Nddrei	1807 North Main St.	Last	Egotia.	_4!! _49	9	ر. سيندن	
12 Water	Chris Ebert Co. from Sand & gravel	13 Cou	nty Taz	ewe	:11		
12. "4161	th $\frac{19}{\text{Diam.}}$ to $\frac{23}{3/4}$ ft.		27.59		TT		
at dep	th $\frac{10}{D_{i}}$ to $\frac{20}{374}$ in	Sec.	26N	`-	 ×	┼	
Lenat	h: <u>4</u> ft. Slot <u>35</u>	Rna	4 W	-	┥—┤—	+-	
			v	-	╁╌┼╾	- -	
15. Casino	g and Liner Pipe			L_		1	
Dlum. (in.)	Kind and Weight	From (Ft.)	To (Ft.)		SHOW Cation	_IN	
4	Standard Black	4	19		TION 1	የቤለገ የአን ጊ	
				SE/	e No	LU A.	
16. Size H	lole below casing:	-in.	_				
	level 4 ft. below casi						
above	ground level. Pumping lever $\frac{2}{2}$ hours.	el <u>o</u> :t.	when pu	mpin	ם בו	ш	
			THICK	N 10 00 0	lor er	104	
10.	FORMATIONS PASSED THROUG				BOTT	ом.	
Sandy l	orown dirt		6		6		
Sandy	yellow clay		6		12		
Brown	sand & gravel-some	e clay-ve	ery har	d 3	15		
Brown	water sand		3		18		
Mediun	n to coarse brown s	and & fir	ne grav	el 5	23		
Mediun	n gray water sand-s	ome peb	bles do	wn	to 26	ft.	
and gra	ay shale at 26 ft.						
	E ON SEPARATE SHEET IF I	NECESSARY)					
SIGNED	SIGNED Poher W. Ebert DATE Feb 12, 1969						
	· · · · · · · · · · · · · · · · · · ·	m .					

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Yellow Copy — Well Contractor
Blue Copy ~ Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well						
	a. Dug Bored Hole Diam. 4 in. Depth 228 ft.						
	Curb material Buried Slab: YesNo						
	b. Driven in. Depthft.						
	c. Drilled Finished in Drift In Rock Tubular Gravel Packed						
	d. Grout:						
	(KIND) FROM (Ft.) TO (Ft.)						
2.	Distance to Negrest:						
_	Building Ft. Seepage Tile Field						
	Cess Pool Sewer (non Cast iron)						
	Privy Sewer (Cast iron)						
	Septic Tank Barnyard						
	Leaching Pit Manure Pile						
	Is water from this well to be used for human consumption?						
	Yes No Date well completed 1963						
5.	Permanent Pump Installed? YesNo						
	ManufacturerTypeft.						
_	Well Top Sealed? YesNo						
7	Pitless Adaptor Installed? Yes No						
	Well Disinfected? Yes No						
Э.	Water Sample Submitted? YesNo						
RFI	MARKS:						
	40' of H20						
	10 1120						

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10.	Dept. !	Mines and Minerals	permit No	o,	·	Year .		
11.	Proper	ty owner	-117		Well_No	·		
	144	-		Eas	Well No	va.	$\mathcal{I}_{\mathcal{I}}$	I
	Driller	1Um Eb	ert_	Licens	e No		<u>, </u>	
12.	Water f	tum Eh rom San 4	Grave	413. Com	$ty _{72}$	17.0	ر مع دير	7
	at dept	h to ft.		Sec.	27.3	==		
14.	Screen	: Diam. 4 in.			261			7
	Length	:3_ft. Slot	0	Rng.	4 U	<i>!</i>	 	7-
15.	Casing	and Liner Pipe		Elev	·			上
Die	ım. (in.)	Kind and Weig	ht	From (Ft.)	To (Ft.)		SHOW	
	4	Steel		0	225		TION	
-	-/	<u> </u>			<i>D</i>			
-								
<u> </u>		ole below casing:						
	gpm fo	ground level. Pump rhours.						
18.	F	ORMATIONS PASSED	THROUGH	·	THICK	NESS	BOTT	
								
	0	£ 4.						
	10 M	t to se	re	<u>'</u>				
_								
				············				
							<u></u>	
(C	ONTINU	ON SEPARATE SHE	ET IF NI	CESSARY)				
	ONTINUE	on separate she		ecessary)	`E	7/18	160	<u> </u>

Fact one.

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well
	a. Dug Bored Hole Diamin. Depthft.
	Curb material Buried Slab: YesNo
	b. Driven Drive Pipe Diamin. Depthft.
	c. Drilled Finished in Drift In Rock
	Tubular 🗶 . Gravel Packed
	d. Grout: (KIND) FROM (Ft.) TO (Ft.)
2.	Distance to Negrest:
	Building 5 Ft. Seepage Tile Field
	Cess Pool Sewer (non Cast iron)
	Privy Sewer (Cast iron)
	Septic Tank 60 Barnyard
	Leaching Pit Manure Pile
3.	Is water from this well to be used for human consumption?
	V N-
4.	Date well completed april 11967
5	Permanent Pump Installed? Yes X No.
J.	Permanent Pump Installed? Yes No Manufacturer Red Jackst Type Sufe
	Capacity 8 gpm. Depth of setting 17/ ft
•	Well Top Sealed? Yes X No No
0.	Pitless Adaptor Installed? Yes X No No
/.	Pitless Adaptor installed 188
	Well Disinfected? Yes No
9.	Water Sample Submitted? YesNo
	MARKS:

	GEOLOGICAL	WATER	SURVEYS	WATER	WELL	RECOR	D
O.	. Dept. Mines an	d ^{yez} ral <u>s</u>	permit No	NFL	104 re	ar 196	6
1.	Property owner Address_			Wo	ell No.	oria.	
	Address	_		<u>Eo</u>	stre	orta	
	Driller Lot	5 G. 50	t.	License !	No. YE	<u>-477</u>	٠
2.	. Water from <u>S</u>	and	1	3. County	Tass	Livel's	۷.
	1115	Formation		_ 0	1 77		T

14.	Screen: Diam. 3 24 in. Length: 3 ft. Slot 16	Twp. 26 N Rng. 4W	_
	•	Elev	<u> </u>

15. Casing	g and Liner Pipe			LL
Diam. (in.)	Kind and Weight	From (Ft.)	To (Pt.)	SHOW LOCATION IN
4	Standard Blad	4'	173	SECTION PLAT
				19.5 Ed. 75

16. Size Hole below casing: _____in.

17. Static level 146 ft. below casing top which is _____ft above ground level. Pumping level 149 ft. when pumping at 12 gpm for _____ hours.

gpm for nours.	*	
18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Fill	9	9
Vellow elay	23	32
Blue clay	29	61
Very sandy clay some	rate 7	68
Blue elan	26	94
Dry rellow fine san	2 23	1/2
Dry vellow sand terans	el 28	145
(CONTINUE ON SEPARATE SHEET IF NECESSA	RY)	

Fine to medium water and 26.17/ Fine to coarse water sand 5-176

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well
	Type of Well a. Dug Bored Hole Diam. in. Depth 22 ft. Region Sleb Voc.
	Citto material
	b. Drivenin. Depthft.
	c. Drilled Finished in Drift In Rock
	Tubular Gravel Packed
	d. Grout: (KIND) FROM (Ft.) TO (Ft.)
	(KIND) FROM (Ft.) TO (Ft.)
2	Distance to Name to
۷٠	Distance to Nearest: Building Ft. Seepage Tile Field
	Cess Pool Seepage The Field
	Privy Sewer (Cast iron)
	Septic Tank Barnyard
	Leaching Pit Manure Pile
•	Is water from this well to be used for human consumption?
	Yes No
5.	Permanent Pump Installed? YesNo
	ManufacturerType
	Capacitygpm. Depth of settingft.
6.	Well Top Sealed? YesNo
7.	Pitless Adaptor Installed? Yes No No
8.	Well Disinfected? Yes No
9.	Water Sample Submitted? YesNo
RE	MARKS:
	no wall level given,
	đ
	no water level given.

	nes and Miratals permit	No	·	Унаст,	
11. Property	owner_ /_	1	Well No	·	2 -
Address_ Driller			EU	1-1	esus.
Driller		Licens			
12. Water fro	m 5 + Grav	<u>و آ</u> 13. Cou	aty	11	esvelle
المسال ما	Formation	Sec	17.2	م ع	
14. Screen:	toft. Diamfin.	Twp		<i>)</i>	┞╌╏╌╏
	3 ft. Slot 20	Rng	474	<i>//</i>	
Dengin	11. 0101	Eler		· L.	
	nd Liner Pipe	, 210			
Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	LO	SHOW CATION IN
4	Stefl	0	218	SEC	TION PLAT
/					
	·				
	hours.	ICU	THICK	NESS	DEPTH OF
18. FOR	CALITONS PASSED TAROC	Jun			DEPTH OF BOTTOM
	•				
					•
(CONTINUE C	ON SEPARATE SHEET IF	NECESSARY)			

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug Bored		
	Curb material	. Buried Slab: Yes_	No
	b. Driven Drive		
	c. Drilled Finish		
	Tubular Grave	Puckeu	
	d. Glout. (KIND)	FROM (Ft.)	TO (Ft.)
			<u></u>
2.	Distance to Nearest:		
	BuildingF		eld
	Cess Pool		iron)
	Privy)
	Septic Tank	_	
	Leaching Pit		
3.	Is water from this well to be		sumption?
	Yes No		
4.	Date well completed		
5.	Permanent Pump Installed?	Yes	No
	Manufacturer	Туре	
	Capacitygpm. 1	Depth of setting	ft.
6.	Well Top Sealed? Yes	No	
	Pitless Adaptor Installed?		
	Well Disinfected? Yes		
9.	Water Sample Submitted?	YesN	lo
HE!	MARKS:		

10.	Dept. l	Mines and Minerals permit	No	Year	
11.	Proper	ty owner (el No	
	Addres	ss	للبيع	Jeria	111
	Driller	ty owner (Licens	e No	
12.	Water i	romFormation	13. Cour	ity Tag	well
		th toft.		27.2F	
14.		: Diamin.		260	
	Length	: 1 ft. Slot 10		4W -	
15.	Casing	and Liner Pipe			
Die	m. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHOW DCATION IN
		<u> </u>	11	SEC	CTION PLAT
16	Siza H	ole below casing:		······································	
		levelft. below casi		h ie	6+
		ground level. Pumping lev rhours.	rel ft.	when pumping	ng at
18.	P	ORMATIONS PASSED THROU	он	THICKNESS	DEPTH OF BOTTOM
,					
			· · · · · · · · · · · · · · · · · · ·		
-		·			
				- 	
					<u> </u>
(C	UNITHO	ON SEPARATE SHEET IF	NECESSARY)		
SIGI	NED	Harvey Po	th DAT	E 8/13	1/68

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Blue Copy -- Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

d. Grout:			· ·		
	(KIND)	FROM	(Ft.)	TO (Ft.)	
					\dashv
Distance to Nea	rest:				
Building	Ft				
Cess Pool				on)	
Privy					
Septic Tank					
Leaching Pit		Manure P	ile		
Is water from th					
YesDate well compl	No	-			
Date well compl	eted/	959			
Permanent Pump	Installed?	Yes	No		
Manufacturer		Ту	pe		
Capacity					_ ft.
Well Top Sealed	? Yes	No_			
Pitless Adaptor	Installed?	Yes	No_		<u>Ue</u>
147 19 500 5 6 6	i? Yes	N	lo		
Well Disintected					

10.	Dept.	Mines and Minerals permit I	Yo	Y	ear	
	Addres	ss Ent	Near	in -	ell.	.
	Driller	ss End	Licens	e No.		
12.		from $5 + 6$	13. Cou	nty	7.21	vell
		Formation			-	7
		th toft.		27.3c	Ϥ┷┼	
14.	Screen	: Diamin.	Twp	. <u>26N</u>		
	Lengti	1:3_ft. Slot2_()	_	. <u>4w</u>		1-15
	. .		Lle	٧		
15.	Casing	g and Liner Pipe				
Die	യ. (in.)	Kind and Weight	From (Ft.)	To (Ft.)		HOW TION IN
4	4	Steel-	0	197		ON PLA
1						
-						
<u></u>						
16.	Size H	ole below casing:	in.	•	^	÷
17.		level /8/ ft. below casi				
		ground level. Pumping leve	elft.	when pun	iping d	rt
	gpm fo	r hours.				
18.		ORMATIONS PASSED THROUG	н	THICKN	ESS D	EPTH OF
10.					E	OTTOM
					i	
	·			- "		
		····				
	TA	thele		1	1	
						
					- 1	
	·					
				}	- 1	
(C	UNITHO	ON SEPARATE SHEET IF I	VECESSARY)			
		1		1		
		-1. M	4	1	1. 1	10
SIGI	VED	Howey Tet	DATE DATE	re X/	8/1	28
			P		/	

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1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well
	a. Dug, Bored, Hole Diam. 4 in. Depth 244 ft. Curb material, Buried Slab: YesNo
	b. Driven, Drive Pipe Diamin. Depthft. c. Drilled Finished in Drift In Rock Tubular, Gravel Packed
	d. Grout: (KIND) FROM (Ft.) TO (Ft.)
2.	Distance to Nearest: Building Ft. Seepage Tile Field Cess Pool Sewer (non Cast iron)
	Privy
	Is water from this well to be used for human consumption? YesNo
5.	Permanent Pump Installed? YesNoNo
	Capacitygpm. Depth of settingft.
6.	Well Top Sealed? YesNo
7.	Pitless Adaptor Installed? YesNoNoNo
9.	Water Sample Submitted? YesNo
REN	ARKS:

		Mines and Minerals permit	No.			
11.	Proper Addres	ty owner	, 	Well No		100
	Driller	wm Ebert	Licen		n co-	
12.	Water i	from Formation	13. Cou	inty \mathcal{I}_{7}	120	well
	at dept	th toft.		. 272e		
14.	Screen	: Digm. // in.		. 26/		
	Length	: 3 ft. Slot 20	-	40		
15.	Casing	g and Liner Pipe	Ele	v		山山
Dia	m. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	LO	MEDW CATION IN
	4	Steel	0	241	BEC	TION PLAT
L			<u> </u>	نن		
	gpm fo	ground level. Pumping lev				-
18.	F	ORMATIONS PASSED THROU	OH .	THICK	NESS	DEPTH OF BOTTOM
1						
_	Vot					
						
						
				1		
(CC	RUMTHO	ON SEPARATE SHEET IF	NECESSARY)			
SIGN	(ED_	Harvey Pe	thy DA?	re	1/2	3/6 F

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH 372 WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug Bored Hole Diam. 4 in. Depth 228 ft. Curb material Buried Slab: YesNo
	b. Driven Drive Pipe Diamin. Depthft.
	c. Drilled Finished in Drift In Rock
	Tubular Grave! Packed
	d Grout:
	(KIND) FROM (Ft.) TO (Ft.)
2.	Distance to Nearest:
	Building Ft. Seepage Tile Field
	Cess Pool Sewer (non Cast iron)
	Privy Sewer (Cast iron)
	Septic Tank Barnyard
	Leaching Pit Manure Pile
3.	Is water from this well to be used for human consumption?
	Yes No
4.	Date well completed 1962
5.	Permanent Pump Installed? YesNo
•	ManufacturerType
	Capacitygpm. Depth of settingft.
6	Well Top Sealed? YesNo
	Pitless Adaptor Installed? Yes No
	Well Disinfected? Yes No
9.	Water Sample Submitted? YesNo
REI	MARKS:

10.	Dept.	Mines con	d Minerals	nermit l	Vo			Year .		
11.	Proper	ty comer	A			\	Vell No.	·		
					. Rea	عن	<i></i>			
			E de							
12.	Water !	from	Formation		13. Co	unt	y Ze	eu	<u>e ()</u>	<u>e</u>
			o 228 ft.				27. 2.			
1.4	at ash	· Diam	<u> </u>				26N		╂─┼	+
14.			t. Slot 2	0			YW		-	
	r-end (1	1. ——— 1	t. 510t					· L		
15.	Casing	and Lin	er Pipe		444	.				
Die	m. (in.)	Ki	nd and Weigh	ı t	From (Ft	י (כ	lo (Ft.)	LO	SHO	W IN
	4	to	el si	se	0	٦,	225			PLAT
			77			+				
\vdash		 				╁				
16.	Size H	ole belov	v casing: <u>Oʻz</u> ft. belo		in.			_		
	above		vel. Pump							
18.	1	ORMATIO	NS PASSED	THROUG	Н		THICK	N E 89	DEF BOI	TH OF
	n,t	t	sh	ele						
(C	ONTINUI	ON SEP	ARATE SHE	ET IF N	IECESSARY)				
SIGI	NED	lag	···		D/	\TE	7-	2 3	3 –	68

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INSTRUCTIONS TO P"" LERS

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1.	c. Drilled	10. Pa D 11. P 12. W 14. Sc L	depth to to the trees. Second to the trees. Two the trees to the trees	well No. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	2 2) // 259 WELL
3.	Well furnishes water for human consumption? Yes No	16. SI 17. SI	ize Hole below casing:in. actic level 36_ it. below casing top who cove ground level. Pumping levelin the cove ground level.	150 Ich is_/	NE II.
4.	Permanent Pump Installed? Yes Date Date	18.	FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF
J,	Manufacturer (C) JAMES pe 51 3 ocation 161	V	ELLAND SOUNY CLA	V -3 /	3/
	Capacity 5 gpm. Depth of Setting 45 Ft.	75	TOUR STANDI CH	2/	
6.	Well Top Sealed? Yes NoType	GA	PAY CLAY TR JAND	12	753
7,		YEL	LANCLAY, SHE WATER D	20108	53
	Model Number 495458W2	D	ARK GRAY TOBLACK SA		18
	How attached to casing? SNEWED 0M		HEL SHOPE I WENTER SO	10	220
	Well Disinfected? Yes No No No No No	24	GRK CARRY SITHET	_/_/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
10.	Pump and Equipment Disinfected? Yes No No The Rom				
	Location BASEMENT		•		
11.	Water Sample Submitted? YesNo	***************************************			
RE:	MARKS:				
	Co#21587	•	TINUE ON SEPARATE SHEET IF NECESSAR D. W. M. LOT D.	n 8/-	

ILLINOIS GEOLOGICAL SURVEY, URBANA

TEST HOLE	Thickness	Top	Bettem	-
Asphalt	·	0	411	
Gravel		411	1	
Brown clay		1	12	
Brown clayey silt with sand seams		12	18	
Gray very silty clay, occasional	l	l		
sand seam	l	18	50	200
Sticky gray silty clay, sand seams		50	73	57.5
Fine sand to coarse gravel and			'	
boulders. Mud Loss: 3" Mud			Į.	
Weight: 9.5		73	88	٠.
Gravel and boulders with sand inter-			•	•
mixed		88	91	
Gray shale		91	96	
			TD	
contractors pump 4 hours at approx: Static water level: 9'		70 81	T	
Size Mud Pit: Length 6', Width 4'				
Split-spoon sample at 77-78.5'				-
s.s.# 60291				٠
		·		¥j6

COMPANY Layne-Western Co.
FARM East Peoria
DATE DRILLED January 20, 1976
AUTHORITY Company ELEVATION Ap. 2100'N line, 2100'W line of NW TAZEWELL LOCATION 32-26N-4W

COUKTY

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Permit #46702	Thickness	Top	Bottom	•
				-
Miscellaneous fill Brown very sandy clay Brown medium sand to coarse gravel		0 1	1	
(loose), trace fine sand, some boulde Gray shale	rs	6 44	44 46	
 Total depth			46	1
Casing: 29' of 12" .330" steel with +2' - 27'	welde	d joint	S	
Screen: 17' of 12" diameter, .120" s with welded joints 27' -		ss stee	1,	:
Hole record: 48" 0' - 10' 38" 10' - 46'			·	
Well test data: Static level 19 ¹ , pum after $5\frac{1}{2}$ hours pumping at 412 gpm. 18 $\frac{1}{2}$ hours.				
s.s. #60629				٠.
Test hole data: Set 2" pipe to 45' wislotted pumped with contractor's pabout 50 gpm for 4 hours. Static wisize mud pit: Length 5', Width 4' S.S. #60293 NO ENVELOPE	mp.	Pumping		

33-26N-4W

ILLINOIS GEOLOGICA	AL SURVEY.	URBANA
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Fill Black loam Bluegray clay Blue clay	4 5 4 21 4 22 7	Тор	9 13 34 38
Black loam Bluegray clay Blue clay	4 22		9 13 34
	4 22		13 34
	4 22		34
	4 22		38
	22		
Blue clay			60
Blue clay and fine sand	(1	ſ	67
Fine sand (dirty)	2		69
Gray clay and small amounts sand	7출		77 }
Sand and gravel	-		86
black iron pipe			TD
Casing: 4 / from 0 to 80'.			
Static water level 11 feet.			
Tested capacity 12 gal. per min. Lenght	of to	st 3hrs	.30min.
Summary Sample Study by G.H. Emrich	6/56		
PLETSTOCENE SERVES			
No sample	և		4
Till or soil, brown, leached	5		9
Tial, yellowish gray, oxidized, cal-		[_
careous.	4		13
Till, silty, gray, calcareous.	21		34
Grave, silty, calcareous.	Į.		3 8
Till, silty, gray to buff, calcareous	29		67
,	2		69
Till, sandy, gray to buff, calcareous	8	,	77
Gravel and till, calcareous.	2		79
Gravel, clacareous, clean.	_ 4		83
Gravel and sand, silty, calcareous; sha			86
at bottom (Pennsylvanian)	3		00
s.s. # 26485			
			l

company M. Ebert

FARM Caterpillar Tractor Co. No. 2

DATE DRILLED 1956 county No. 37

AUTHORITY W. M. Ebert

ELEVATION 111 Est. TM

LOCATION 100' W & 1065'N of SEc. COUNTY Tazewell

31-26N-LIW

ILLINOIS GEOLOGICAL SURVEY, URBANA

TEST HOLE	Thickness	Top	Bottom	
Miscellaneous fill Brown silty clay Brown silty sandy clay Sand and gravel Gray silty sandy clay Fine sand to coarse gravel loose, Mud Loss:12", Mud Weight: 9.5 Blue gray clay Blue gray shale Size Mud Pit: Length:6', Width4' S.S.# 60290		0 5 9 23 25 28 34 48	5 9 25 25 28 34 48 60 TD	
NO ENVELOPE				ŞĞSS

COMPANY Layne-Western Co.

FARM East Peoria Ho. 4-76
DATE DRILLED January 21, 1976 COUNTY NO. 21069
AUTHORITY Company
ELEVATION
LOCATION Ap. 50'S.line, 90'W line of SW
COUNTY TAZEWELL 33-26N-4W

White Copy
III, Dept. - white Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REI STED AND MAIL ORIGINAL TO STATE UC-PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

Curb meterial	Drive Pi	ole Diamin luried Slab: Yes_ pe Diamin in DriftX acked	Noft.
Tubulær ×	(ICIND)	FROM (FL)	Depth 23 ft.
2. Distance to Near Building 200 Cess Pool Privy Septic Tank 3	Ft.	Sewer (non Cast Sewer (Cast Iron	eldiron)
Leaching Pit	s well to be u	sed for human coa	sumption?
Copacity <u>25</u>	ed Jacket gpm. Deg	TypeSub	<u> </u>
6. Well Top Sealed 7. Pitless Adaptor 8. Well Disinfected	Installed?	YesXN	·
9. Water Sample Sul REMARKS:			

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

_	'	. NT 24	54 1		1967	
10. Dept.	Mines and Minerals permit !	10. 111 23	Wall No	rear ,		
11. Prope	ty owner <u>Dixon Fisher</u> 1807 North Main St.	East F	eoria.	111	•	
Drille	Chris Ebert Co.	Licens	• No. 92	-49	9	
12. Water	from Sand & gravel	13. Cour	ty Taz	ewe	11	
		- Can	27.59	-		
14. Screen	4. Screen: Dices. 3 3/4 in. Twp. 26N					
	h: 4 ft. Slot 35	Rng.	4W	.	╅═╅═┪	
•	· · · · · · · · · · · · · · · · · · ·	Elev	'	\vdash	╫╌┼╌┼╌┤	
	g and Liner Pipe			<u> </u>	┸┈┸┈┸┈┨	
Diam. (ia.)	Kind and Weight	From (Ft.)	To (Ft.)		CATION IN	
4	Standard Black	4	19		TION PLAT 'N, 1100'U	
İ				•		
				SE/	ENWN	
	ground level. Pumping lever 2 hours.	elK ft.				
18.	FORMATIONS PASSED THROUG	H	THICK	XESS	DEPTH OF BOTTOM	
Sandy	brown dirt		6		6	
Sandy	yellow clay		6		12	
Brown	sand & gravel-some	clay-ve	ry har	d 3	15	
Brown	water sand		3		18	
Mediur	n to coarse brown s	and & fin	e grav	el 5	23	
Mediur	n gray water sand-s	ome peb	bles do	wn	to 26 ft.	
and gr	ay shale at 26 ft.					
(CONTENU	E ON REPARATE SHEET IF	iecemary)				
	03/20 16	1				

SIGNED Robert W. Ebert DATE Feb 12, 1969

Town East Peorla Tewnship Fondulac Map Ne. 3
Company John Bolliger & Sons Ne. R. 4W
Farm T. P. & W. R.R. Ne. T.
AuthorityDriller's log
Elevation
Coffector K. O. Emery
Confidential Date Drilled

	A = 1/2	Thickness		Thickness Depth		·
No.	WIA.1 -1-234 Strata	Foot	in.	Feet	In.	
	Well #3 Elev. 439 1500' N. line, 700' E. line	•		·		
	Soil and clay, brown Clay, brown Clay, blue Sand and gravel Clay, blue Sand and gravel, fine Shale, soft	4 4 22 10 1 3		4 8 30 40 41 44	*	
	COURTY N= 235 Well #4 Elev. 439 2700' N. line, 1600' E. li	1 0				
	Soil and clay, brown Clay, brown Clay, blue Gravel, coarse Sand, coarse Shale	4 4 19 12 5		27 39 44	***	
	NO ENVELOPE					

county Tazewell DRILL RECORD

INDEX NO. 0331

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31-26N-4W

(12220—20M)

ILLINOIS GEOLOGICAL SURVEY, URBANA

(13-41)



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415 International Specialists in the Environment



HEMORANDUM

DATE: January 9, 1990

TO: Corporate Staff

FROM: Michael D'Auben

SUBJECT: Petroleum Products

This memo is a brief summary of the composition of petroleum products, including gasoline, kerosene, diesel fuel, heating oil and tar. All of these products are complex mixtures of hundreds of hydrocarbons. Only a small number of these are members of the TCL list.

Gasoline is composed of almost 100% volatiles, and about 50% of these are aromatics such as benzene. In addition to these volatiles, there are traces (< 1%) of semivolatiles such as PAHs. Kerosene has less volatiles, about 80%, and only about 14% of these are aromatics. Of the remaining fraction, there are about 6% PAHs. Diesel fuel (No. 2 fuel oil) has only about 50% volatiles and only about 4% of these are aromatics. Diesel fuel does have a much larger percentage of PAHs, over 30%. Finally, tar is almost all semivolatiles, mainly PAHs, with only small amounts of aromatics (< 5%). In composition, heating oil falls somewhere between diesel fuel and tar.

There are two analyses commonly used to test for petroleum products, oil and grease (0 & G) and total hydrocarbons (TPH). For the 0 & G analysis, the sample is extracted with a solvent such as Freon or hexane. The solvent is then either evaporated to dryness and the residue weighed (gravimetric analysis) or measured in an infrared spectrometer (spectroscopic analysis). Because the solvent is evaporated, the first method is unsuitable for samples containing gasoline, kerosene or diesel fuel

since most of these will be lost to volatilization. The second method is somewhat better for these light products, although losses of 50% or more for gasoline can be expected. The TPH analysis is similar to the spectrographic 0 & G analysis, but the extract is treated to remove non-petroleum (naturally occurring) oils which show up in the oil & grease analysis. The detection limits for all of these methods can reach 1 ppm if the analyst is competent.

SOME COMMON PETROLEUM PRODUCTS (in order of increasing density and decreasing volatility)

Gasoline
Kerosene/jet fuel
Diesel fuel
Heating oil
Motor oil
Tar

SOME COMMON PETROLEUM COMPONENTS

Volatiles
ethylbenzene
benzene
styrene
toluene
xylene

Semivolatiles
acenaphthalene
naphthalene
2-methylphenol
4-methylphenol
anthracene
phenanthrene
fluorene
phenol

REFERENCES

- Kawahara, F. K., Characterization and Identification of Spilled Residual

 Fuel Oil by Gas Chromatography and Infrared Spectroscopy, U.S. EPA,

 1971.
- Coleman, W. E., et. al., "The Identification and Measurement of Components in Gasoline, Kerosene, and No. 2 Fuel Oil that Partition in the Aqueous Phase After Mixing", Archives of Environmental Toxicology, 1984.
- Environmental Monitoring & Support Laboratory, Methods for Chemical Analysis of Water and Waste, U.S. EPA, 1983.
- Hawley, G. G., <u>The Condensed Chemical Dictionary</u>, Van Nostrand Reinhold Co., 1981.

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